

U. S. DEPARTMENT OF LABOR  
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION  
MATERIAL SAFETY DATA SHEET

SECTION I

Manufacturer's Name	Emergency Telephone No.
ELF AQUITAINE ASPHALT, INC.	812/232-0421
Address (Number, Street, City, State and ZIP Code)	
1000 EXECUTIVE PARKWAY P. O. BOX 27327 ST. LOUIS MISSOURI 63141	
Chemical Name and Synonyms	Trade Name and Synonyms
ASPHALT EMULSION	CM-4
Chemical Family	Formula
PETROLEUM HYDROCARBON & WATER	

SECTION II INGREDIENTS

INGREDIENTS	C.A.S. NO.	%
ASPHALT	8052-42-4	55-70
FUEL OIL	8008-20-6	5-20
WATER	7732-18-5	25-35
TALLOW ALKYL AMINE	61790-33-8	0.3-0.6
HYDROCHLORIC ACID	7647-01-0	0.15-0.3

SECTION III PHYSICAL DATA

Boiling Range	212°F	Specific Gravity (H <sub>2</sub> O=1)	0.97-1.00
Vapor Pressure (mm Hg.)	23.7	Percent Volatile by Volume (%)	30-55
Vapor Density (Air @ 1)	>1	Evaporation Rate (water = 1)	1
Solubility in Water	SLIGHTLY MISCIBLE		
Appearance and Odor	LOW TO MEDIUM VISCOSITY, BROWN LIQUID.	VERY LITTLE ODOR.	

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable or Explosive Limits (Percent by Volume in Air)	Lower Limit	Upper Limit
Does not apply in emulsion state			
Extinguishing Media Non-flammable in emulsion state			
Special Fire Fighting Procedures  None			
Unusual Fire and Explosion Hazards  None			

## SECTION V HEALTH HAZARD DATA

Threshold Limit Value  Not established
Effects of Overexposure  Prolonged or repeated contact at warm or ambient temperature may cause skin irritation.
Emergency and First Aid Procedures  In case of skin contact with product, wash with soap and water. Waterless hand cleaner may be used to aid in removal from skin. If material is splashed into eyes, flush with clean water and contact a physician.

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatability (Materials to avoid)			
Hazardous Decomposition Products			
Hazardous Polymerization	May Occur		Conditions to Avoid  No hazardous polymerization will occur upon decomposition.
	Will Not Occur	X	

## SECTION VII SPILL OR LEAK PROCEDURES

### Steps to be Taken in Case Material is Released or Spilled

Create dikes or ponds as soon as possible. Use earth, saw dust or sand to make dikes or to use as absorbent. Upon absorption, material will revert to asphalt state and can be removed with absorption material.

### Waste Disposal Method

Dispose of material at an approved waste disposal site or facility.

## SECTION VIII SPECIAL PROTECTION INFORMATION

### Respiratory Protection (Specify Type)

Normally not needed

Ventilation	Local Exhaust	Special
	Mechanical (General)	
Protective Gloves Normally not needed, unless prolonged contact is expected.		Eye Protection Goggles or face shield when eye contact may occur.

### Other Protective Equipment

Normally not needed.

## SECTION IX SPECIAL PRECAUTIONS

### Precautions to be Taken in Handling & Storing

Avoid skin contact.

### Other Precautions

Laundry contaminated clothing before re-use. Wash skin thoroughly with soap after handling.

### For Additional Information on

### Health Effects Contact:

Mr. Marvin K. Exline  
Director of Research  
Bituminous Materials Company, Inc.  
P. O. Box 1507  
Terre Haute, IN 47808  
(812) 232-0421 Ext. 60

No. 20

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